

Patent Claims

- 1 1. Coin slot for a mechanical coin-acceptor unit, comprising a coin slot aperture,
2 which is incorporated in a front plate, a coin slot chamber and a coin channel, the
3 coin channel being offset relative to the coin slot aperture and the coin slot
4 chamber having a shoulder behind the coin slot aperture in the insertion
5 direction, wherein the shoulder is configured so as to vibrate as a coin reflector
6 in such a manner that an impacting inserted coin in the coin slot chamber is
7 reflected by the shoulder elastically in the direction of the front plate and, in the
8 coin slot chamber, experiences a renewed reversal of direction in the direction of
9 the coin channel.
- 1 2. Coin slot according to claim 1, wherein the coin slot chamber has a height which
2 is substantially greater than the height of the insertion aperture and the insertion
3 aperture in the front plate is configured in the upper region of the coin slot
4 chamber in such a manner that an inserted coin falls downwardly in an arcuate
5 manner and impacts against the coin reflector and falls further downwardly
6 counter to the insertion direction until it hits the front plate and/or the base of the
7 coin slot chamber and/or experiences a reversal of direction due to gravity.
- 1 3. Coin slot according to claim 1, wherein, in order to achieve the vibrating coin
2 reflector, the transition regions of the shoulder to a side wall of the coin slot
3 chamber and to a side wall of the coin channel are provided with clearances.
- 1 4. Coin slot according to claim 2, wherein, in order to achieve the vibrating coin
2 reflector, the transition regions of the shoulder to a side wall of the coin slot
3 chamber and to a side wall of the coin channel are provided with clearances.
- 1 5. Coin slot according to claim 3, wherein, in the transition regions, the clearances
2 are configured as apertures formed at the height of the coin slot chamber.

- 1 6. Coin slot according to claim 4, wherein, in the transition regions, the clearances
2 are configured as apertures formed at the height of the coin slot chamber.
- 1 7. Coin slot according to claim 1, wherein the shoulder comprises a flexible
2 material.
- 1 8. Coin slot according to claim 7, wherein the shoulder comprises a tongue
2 extending in the vertical direction of the coin slot chamber, as coin deflector.

1 9. Mechanical coin-acceptor unit with a coin slot comprising a coin slot aperture,
2 which is incorporated in a front plate, a coin slot chamber and a coin channel, the
3 coin channel being offset relative to the coin slot aperture and the coin slot
4 chamber having a shoulder behind the coin slot aperture in the insertion
5 direction, wherein the shoulder is configured so as to vibrate as a coin reflector
6 in such a manner that an impacting inserted coin in the coin slot chamber is
7 reflected by the shoulder elastically in the direction of the front plate and, in the
8 coin slot chamber, experiences a renewed reversal of direction in the direction of
9 the coin channel, wherein the coin channel having various checking devices, in
10 the direction of movement of the coin, for checking parameters of the coin in a
11 lateral delimiting wall, an acknowledgement and acceptance region for valid
12 coins being provided at the end of the coin channel and a longitudinal opening,
13 situated opposite the lateral delimiting wall, being disposed over a substantial
14 part of the coin channel, through which opening coins which have not to be
15 accepted fall into a return shaft.

1 10. The mechanical coin-acceptor unit according to claim 9, wherein the coin slot
2 chamber has a height which is substantially greater than the height of the
3 insertion aperture and the insertion aperture in the front plate is configured in the
4 upper region of the coin slot chamber in such a manner that an inserted coin falls
5 downwardly in an arcuate manner and impacts against the coin reflector and falls
6 further downwardly counter to the insertion direction until it hits the front plate
7 and/or the base of the coin slot chamber and/or experiences a reversal of
8 direction due to gravity.

1 11. The mechanical coin-acceptor unit according to claim 9, wherein, in order to
2 achieve the vibrating coin reflector, the transition regions of the shoulder to a
3 side wall of the coin slot chamber and to a side wall of the coin channel are
4 provided with clearances.

- 1 12. The mechanical coin-acceptor unit according to claim 10, wherein, in order to
2 achieve the vibrating coin reflector, the transition regions of the shoulder to a
3 side wall of the coin slot chamber and to a side wall of the coin channel are
4 provided with clearances.
- 1 13. The mechanical coin-acceptor unit according to claim 11, wherein, in the
2 transition regions, the clearances are configured as apertures formed at the height
3 of the coin slot chamber.
- 1 14. The mechanical coin-acceptor unit according to claim 12, wherein, in the
2 transition regions, the clearances are configured as apertures formed at the height
3 of the coin slot chamber.
- 1 15. The mechanical coin-acceptor unit according to claim 9, wherein the shoulder
2 comprises a flexible material.
- 1 16. The mechanical coin-acceptor unit according to claim 15, wherein the shoulder
2 comprises a tongue extending in the vertical direction of the coin slot chamber,
3 as coin deflector.